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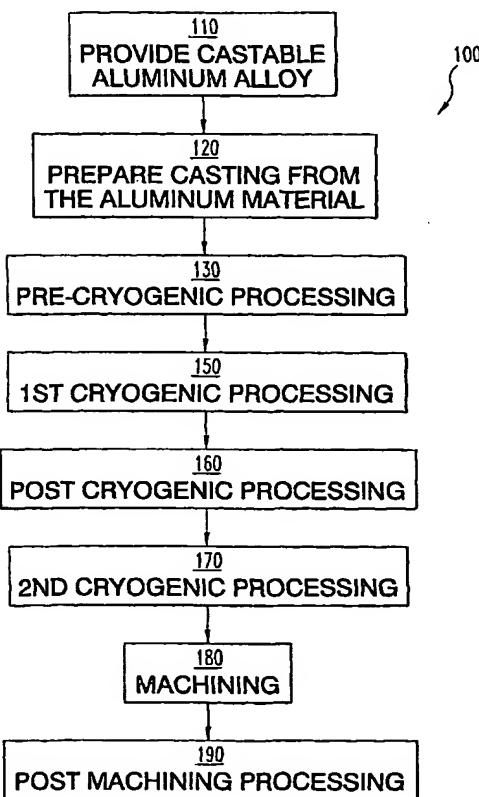
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*[Continued on next page]*

## (54) Title: PROCESSING FOR CAST COMPONENTS



(57) **Abstract:** Methods and apparatus for cast metallic components with improved fatigue characteristics. Some embodiments include cryogenic processing of the cast material, such as aluminum C355,354, or A354, and alloys such as Inconel 713C, IN713LC, IN-738, IN-100 or GMR235 prior to or after machining of the cast component. Other embodiments include an object cast from an aluminum compound including up to 1 percent scandium, 1 percent lithium, or combinations of the two.



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